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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/643,946	08/20/2003	Shuichi Kanno	ASA-1145	5406	
24956 7590 05/17/2007 MATTINGLY, STANGER, MALUR & BRUNDIDGE, P.C. 1800 DIAGONAL ROAD			EXAMINER		
			DUONG, THANH P		
SUITE 370 ALEXANDRI	A VA 22314		ART UNIT	PAPER NUMBER	
<i>TEEM</i> TOTAL	11, 111 22311	11.22311	1764		
			MAIL DATE	DELIVERY MODE	
	•		05/17/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application No.	Applicant(s)			
	0554 (10	10/643,946	KANNO ET AL.			
	Office Action Summary	Examiner	Art Unit			
		Tom P. Duong	1764 [.]			
Period fo	The MAILING DATE of this communication apport Reply	pears on the cover sheet wit	h the correspondence address			
WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DON'S IN THE MAILING DON'S IN THE MAILING DON'S IN THE MONTHS FROM THE MAILING DON'S IN THE MONTHS FROM THE MAILING DON'S IN THE MONTHS FROM THE MONTHS FROM THE MONTHS THE	ATE OF THIS COMMUNIC 36(a). In no event, however, may a re will apply and will expire SIX (6) MONT , cause the application to become ABA	ATION. ply be timely filed HS from the mailing date of this communication. ANDONED (35 U.S.C. § 133).			
Status		•	•			
1)⊠	Responsive to communication(s) filed on 23 Fe	ebruary 2007.				
2a)⊠	This action is FINAL . 2b) This	action is non-final.				
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
	closed in accordance with the practice under E	Ex parte Quayle, 1935 C.D.	11, 453 O.G. 213.			
Dispositi	ion of Claims		•			
5)□ 6)⊠ 7)□	Claim(s) <u>6-9</u> is/are pending in the application. 4a) Of the above claim(s) is/are withdraw Claim(s) is/are allowed. Claim(s) <u>6-9</u> is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or					
Applicati	ion Papers					
	The specification is objected to by the Examine The drawing(s) filed on is/are: a) acceedable and any objection to the	epted or b)⊡ objected to b				
11)	Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Ex	ion is required if the drawing(s) is objected to. See 37 CFR 1.121(d).			
	ınder 35 U.S.C. § 119	armor. Note the attached	omice Action of form 1 10-132.			
12) <mark>⊠</mark> a)	Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau See the attached detailed Office action for a list	s have been received. s have been received in Aprity documents have been rule (PCT Rule 17.2(a)).	plication No eceived in this National Stage			
Attachmen	t(s)					
1) Notic 2) Notic 3) Inforr	te of References Cited (PTO-892) te of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date		Mail Date ormal Patent Application			

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DETAILED ACTION

Priority

Acknowledgment is made of applicant's claim for foreign priority based on an application filed in Japan on August 28,2002. It is noted, however, that applicant has not filed a certified copy of the 2002-247952 application as required by 35 U.S.C. 119(b).

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 1. Claims 6 and 7 are rejected under 35 U.S.C. 102(b) as being anticipated by Japanese Patent Publication 10-192653 (hereinafter JPN '653). Regarding claim 6, JPN '653 discloses an apparatus (Figure 1) for treating a perfluorocompound comprising a means for obtaining a gas flow by diluting a perfluorocompound (via line 5) with nitrogen or air (3); a means for adding steam (4) to said gas flow; a reactor (decomposition reactor) for bringing said gas flow containing the added steam into contact with a catalyst (Section 0030) to decompose the perfluorocompound; a heating means (Section 0030) for heating said catalyst comprising Ni, Al and W as catalytically active ingredients (Section 0010) and comprising a composite oxide of Ni and A1 and a

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composite oxide of Ni and W which has been packed in said reactor, to the decomposition temperature (Section 0030) of the perfluorocompound; and an exhaust gas washing tank (Section 0030) for bringing a gas containing decomposition products produced in said reactor into contact with water or an alkali (Section 0030) to remove hydrogen fluoride from the gas. Regarding claim 7, JPN '653 discloses the apparatus of treating PFC succeed the etching process (Sections 0002, 0028, 0029).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 8 and 9 are rejected under 35 U.S.C. 103(a) as being unpatentable over JPN '653. JPN '653 does not disclose the specific claimed range Ni/Al mole ratio with small percentage of W. However, JPN '653 disclose a small amount of Ni and W (0.1-10%) can be mixed with Al (75-98%) to obtain a higher catalytic activity (Section 00010). Therefore, it would have been obvious in view of JPN '653 to one having ordinary skill in the art to optimize the mole ratio Ni/Al with W including the claimed ratio in order to provide the catalyst composition with a higher catalytic activity, since it has been held that where the general conditions of a claim are disclosed in the prior art, discovering the optimum or workable ranges involves only routine skill in the art (*In re*

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Boesch, 617 F.2d. 272, 205 USPQ 215 (CCPA 1980) and (In re Allen 105 USPQ 233).

Note, Applicants have not shown criticality of the claimed mole ratio.

Response to Arguments

Applicant's arguments with respect to claims 6-7 have been considered but are moot in view of the new ground(s) of rejection. The newly added claims 8 and 9 necessitated new grounds of rejection.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tom P. Duong whose telephone number is (571) 272-2794. The examiner can normally be reached on 8:00AM - 4:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Glenn Caldarola can be reached on (571) 272-1444. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Tom Duong May 7, 2007

TD

Glenn Caldarola
Supervisory Patent Examiner
Technology Center 1700